

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: Middle Grades MathThematics, Books 1, 2, and 3
Author: Billstein, et al. Copyright: 2002
ISBN: See attachment Course/Content Area: P-8 Mathematics
Intended Grade or Level: 6-8 Readability Level: See attachment
List Price: See attachment Lowest Wholesale Price: See attachment

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

MathThematics is based on the STEM Project curriculum, supported in part by the National Science Foundation. The program is a complete, standards-based, integrated mathematics curriculum for the middle grades. The strands of mathematics are integrated and developed through thematic modules in each level text. The content is problem solving oriented, emphasizes critical thinking and reasoning skills, and has an increased emphasis on data analysis and statistics, proportional reasoning, algebra, geometry, and discrete mathematics.

Student Experiences

MathThematics is a discovery-based approach to exploring mathematical concepts. The materials are problem-centered, applications based, and use technology where appropriate. The materials are designed to integrate communication into mathematics by providing opportunities for students to use reading, writing, and speaking as tools for learning mathematics. Many lessons are designed to be project oriented and to have students work cooperatively. New assessment techniques, such as *Embedded Questions*, *Extended Explorations*, *Module Projects*, and *Portfolios* are used throughout the materials. Students are encouraged to participate in self-assessment.

Assessment

The *MathThematics* assessment component serves four major purposes: to monitor student progress in problem solving, reasoning, and communication; to assess student proficiency in content areas; to help teachers make instructional decisions; and to document student progress for students, parents, and teachers.

The following assessment tools are incorporated into the Explorations: warm-ups, embedded questions, practice and application exercises, and reflecting on the section questions. Extended Explorations and Module Projects may be used as performance assessments. Each module concluded with a set of questions that can be used to review and test. Additional assessments include mid-module quizzes, module tests, standardized assessment, and module performance assessments. Portfolios can be used to show a representative sample of students' work. The test and practice generator helps teachers prepare focused practice as well as formal assessments.

Organization

MathThematics is the only fully integrated, complete mathematics curriculum, bound in single-volume, full-color student editions available for the middle grades (6, 7 & 8). Each level text is composed of eight thematic modules of investigation and instruction. A teacher's edition, the Professional Development Handbook, and Teacher's Resource Books provide support for teachers. A variety of supplemental resources are available, as well.

The organization of the pupil's edition makes it easy for students to learn through guided discovery. Special features help parents help their children.

- Easy-to-follow lessons begin with a *Setting the Stage* feature that provides either a reading, graph, activity, or game to introduce the section and motivate students.

- Each section uses *Explorations* that actively involve students in investigating math concepts, learning math skills, and solving problems in a variety of real-world contexts. *Lab Sheets* are provided in the Teacher Resources.
- A summary of *Key Concepts* helps students study and review the section while developing note-taking skills.
- *Exercises*, that include a *Reflecting on the Section* feature, develop numerical and problem-solving skills and the ability to write about and discuss mathematics.
- At the end of every section, *Extra Skill Practice* provides exercises that help teachers assess students' understanding of important skills before starting the next section.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Teacher's Edition, Teacher's Resource Package, Overhead Manipulatives Kit, Interactive Transparencies, Multi-Language Glossary, Preparation for Middle School Math Teacher's Edition, Test & Practice Generator CD-ROM, www.mcdougallittell.com.

Free per school building: Personal Student Tutor CD-ROM with Site License

Free per pupil's edition purchased for the life of the adoption: Middle Grades MathThematics Workbook

- **Available Ancillary Materials**

Student Manipulatives Kit, Preparation for Middle School Math Pupil's Edition, Personal Student Tutor CD-ROM, Personal Student Tutor CD-ROM 10 Pack,

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate **"not available"** in the space.

A comprehensive booklet of evidence of effectiveness is available from the publisher. Here are two examples:

Statewide math testing (Missouri MAT) shows that students in Jefferson City's MathThematics program have higher scores compared to their peers across the state in non-MathThematics classes.

	1993	1994	1995	1996	1997	<u>State Average</u>
School Average	372	416	421	430	429	382

Grade 6 and 8 Standardized Math Test Scores in Fort Wayne, Indiana

District	Year Program was Purchased	Pt. Change 1999-2000	Pt. Change 2000-2001	Pt. Change 1999-2001
Fort Wayne Grade 6	1998	+ 1.0	+1.8	+2.8
Fort Wayne Grade 8	1998	+ 1.9	+2.6	+4.5

<u>Title</u>	<u>ISBN</u>	<u>List Price</u>	<u>Lowest Wholesale Price</u>	<u>Readability</u>
Middle Grades MathThematics, Book 1	0-618-09801-1	\$64.36	\$48.27	5.5/4.9 (with/without technical terms)
Middle Grades MathThematics, Book 2	0-618-09802-X	\$64.36	\$48.27	5.9/5.2 (with/without technical terms)
Middle Grades MathThematics, Book 3	0-618-09805-4	\$64.36	\$48.27	6.3/5.9 (with/without technical terms)

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: Integrated Mathematics, Books 1, 2, and 3
Author: Rubenstein, et al. Copyright: 2002
ISBN: See attachment Course/Content Area: Integrated Mathematics
Intended Grade or Level: 9-12 Readability Level: See attachment
List Price: See attachment Lowest Wholesale Price: See attachment

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Over a 3-year period, *Integrated Mathematics* (Books 1, 2 and 3) teaches the same topics as a contemporary Algebra1/Geometry/Algebra 2 sequence. Algebra and geometry are taught in each course. Logical reasoning, measurement, probability, statistics, discrete mathematics & functions are included each year.

Algebra topics in *Book 1* include expressions, linear equations and graphs, inequalities, systems of linear equations, & quadratic equations and graphs. Geometry topics include coordinate geometry, transformations, similarity, area, solid geometry, & trigonometric ratios. Students also study experimental, theoretical, and geometric probability, & statistical measures and graphs.

Book 2 has a strong geometry strand that includes inductive and deductive reasoning, coordinate geometry in 2- and 3-dimensions, implications, arguments, & postulates in algebra. Students write two-column, paragraph, and flow proofs about similar and congruent triangles. Algebra topics include indirect variation, complex numbers, the binomial theorem, & rational and cubic equations. Students also study special right triangles, counting techniques, probability and odds, Pascal's triangle, & binomial experiments.

Book 3 emphasizes functions – radical, piecewise, exponential, logarithmic, inverse & trigonometric. Students study sequences and series. Geometry emphasis is on circles. Students study indirect proof, polar coordinates, vectors, deviation, normal distributions, linear and quadratic regression, conditional probability, expected value, and transition matrices. Discrete topics include algorithms, finite graphs, & linear programming.

Student Experiences

The program actively involves students in investigating mathematics through explorations, long-term projects and cooperative activities that incorporate manipulatives and graphing technology. Content is presented through a strong visual/verbal model emphasizing diagramming and graphing. Students encounter “Watch Out” notes, technology, toolbox and student resources notes at point of need for extra help that is placed in the back of the book. Real-world applications build context and meaning while providing problem-solving opportunities that help students make cross-curricular connections. Students are continually asked to explain, justify, and extend their thinking. The opening chapter project is supported in lessons throughout the chapter. The use of technology is embedded within the lessons. Manipulative explorations are completely organized in the student's book so they may be responsible for their own behavior during cooperative learning.

Assessment

The pupil's edition has a section of informal, Ongoing Assessment in every lesson. Formal Checkpoints and end-assessments are provided in every unit. The Unit Projects may be used as performance-based assessments and rubrics are provided in the teacher's edition. The *Assessment Book* includes Program Objectives Record Charts, Section Quizzes, Unit Tests, Cumulative Tests, Alternative Assessments, and Unit Tests in Spanish. The test generator allows teachers to prepare a variety of formal assessments.

Organization

The *Integrated Mathematics* series is a fully integrated three-year sequence of high school mathematics content bound into three single-volume textbooks. Each course is organized into ten units of instruction that includes manipulative explorations, the use of technology, and optional extended projects. Many lessons are developed over two days. Block scheduling guides are available. Teachers are supported by a wide variety of resources, including diagnostic placement tests, transparencies, and a test generator.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Teacher's Edition, Teacher's Resource Package (includes Test Generator), Solution Key, Overhead Visuals, Multi-Language Glossary, www.mcdougallittell.com.

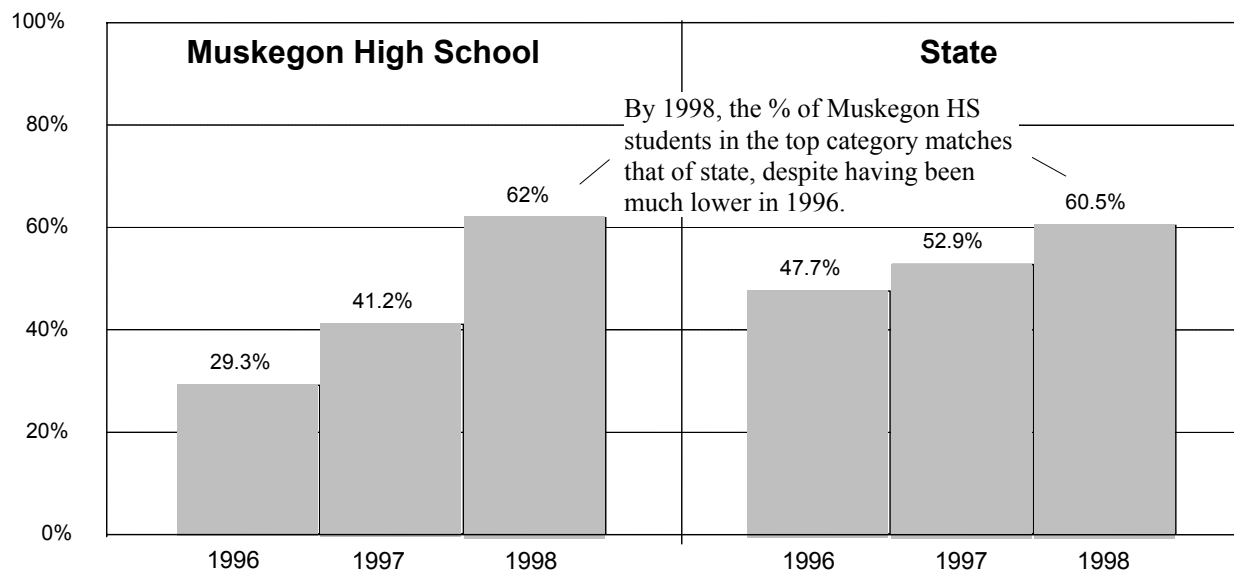
- **Available Ancillary Materials** N/A

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate **"not available"** in the space.

Earlier versions of this series have been in use for several years and *Integrated Mathematics* is widely accepted by universities across the USA as college preparatory material. **A comprehensive Background and Effectiveness document is available from the publisher.** Here is one example:

Muskegon High School, Muskegon Public School District, in Muskegon, Michigan, is one of the thirteen Michigan schools to have used all three levels of the *Integrated Mathematics* program by the end of the 1996/1997 school year. Scores for Muskegon High School students on the mathematics portion of the Michigan High School Proficiency Test (HSPT) have increased dramatically over the past couple of years. The high school also reports that pre-calculus enrollment increased from 36 to 50 students between the 1997-1998 and 1998-1999 school years.



<u>Title</u>	<u>ISBN</u>	<u>List Price</u>	<u>Lowest Wholesale Price</u>	<u>Readability</u>
Integrated Mathematics, Book 1	0-618-07394-9	\$70.72	\$53.04	6.9/5.5 (with/without technical terms)
Integrated Mathematics, Book 2	0-618-07397-3	\$72.40	\$54.30	7.4/6.4 (with/without technical terms)
Integrated Mathematics, Book 3	0-618-07400-7	\$74.14	\$55.61	7.5/6.9 (with/without technical terms)

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: Passport to Algebra and Geometry
Author: Larson, et al. Copyright: 2002
ISBN: 0-618-18596-8 Course/Content Area: Pre-Algebra
Intended Grade or Level: 8-12 Readability Level: 6.3/5.5 (with/without technical terms)
List Price: \$66.76 Lowest Wholesale Price: \$50.07

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Passport to Algebra and Geometry provides comprehensive coverage of important pre-algebra – and pre-geometry – topics. Students are exposed to new content (integers, expressions, and equations) in the first four chapters and then return to review an extension of familiar topics such as graphing, number theory, fractions, ratio and proportion, decimals and percents. The text also explores congruence and similarity, linear equations, and polynomials. Students study data analysis, probability, and measurement. *Passport to Algebra and Geometry's* integrated and paced approach to core algebraic concepts ensures mastery of the skills necessary for success in high school and beyond.

Student Experiences

An important goal of the program is to help students recognize and appreciate the role mathematics plays in the real world. At every opportunity, *Passport to Algebra and Geometry* demonstrates the usefulness and vitality of mathematics, making it accessible to every student.

Passport to Algebra and Geometry encourages communication and reasoning to develop conceptual and computational abilities and integrates connections to interdisciplinary subjects and various math strands. In addition, this pre-algebra course provides clear explanations and examples to address various learning styles through the use of writing, visuals, hands-on explorations, cooperative learning, and technology. The text provides a non-threatening development of abstract concepts, which eases the transition to high school algebra and ensures greater student understanding.

The program provides both challenging materials for gifted and talented students, and support for less proficient students and students acquiring English. Highlighted vocabulary, clearly explained color-coded examples, visual models, and more, help students of various ability levels and learning styles.

Assessment

Numerous assessment options are integrated throughout *Passport to Algebra and Geometry*. In the front of the text is an *Assessment Handbook*, which includes a Pre-Course Test, Pre-Course Practice, Tips for Success on Standardized Tests, an End-of-Course Test, and End-of-Course Practice. The tests and practice pages are each correlated to locations in the text where students may find examples and additional practice on the relevant material. Opportunities for formal, alternative, and performance-based assessment also include review exercises in each lesson, daily cumulative reviews, writing questions, cooperative assessments, projects, and technology activities. Teachers using *Passport to Algebra and Geometry* for their pre-algebra course can customize instruction and assessment to meet individual student needs using the Computer Test and Practice Generator that corresponds to this text.

Organization

The single-volume pupil's edition is organized into 14 chapters of study. Each chapter presents a theme and a chapter project to help students apply the mathematics to a real-world problem. The instructional program centers on problem solving through the use of authentic data. Students are supported with a clear, consistent lesson plan, practice tied directly to examples, interesting applications and on-going, standardized assessment in every lesson. Presentation of content is varied and manipulative labs and lesson investigations correlate closely with upcoming lesson(s). Communicating About Mathematics feature lessons, communication questions and math journal notes encourage students to verbalize their understanding. Calculators are used with "technology" problems in the exercise sets, in a variety of inductive lesson investigations, and with special feature lessons. Students have standardized test practice for every chapter, a toolbox of basic skills, and extra practice at the back of the book.

Resource Materials

• Gratis Items To Be Provided And Under What Conditions

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Teacher's Edition, Teacher's Resource Package, Multi-Language Glossary, Overhead Manipulatives, Teacher Time-Saver Transparencies, Computer Test & Practice Generator CD-ROM, www.mcdougallittell.com.

Free per school building: McDougal Littell Middle School Tutorial CD-ROM with Site License

Free per pupil's edition purchased for the life of the adoption: Practice Workbook Pupil's Edition

• Available Ancillary Materials

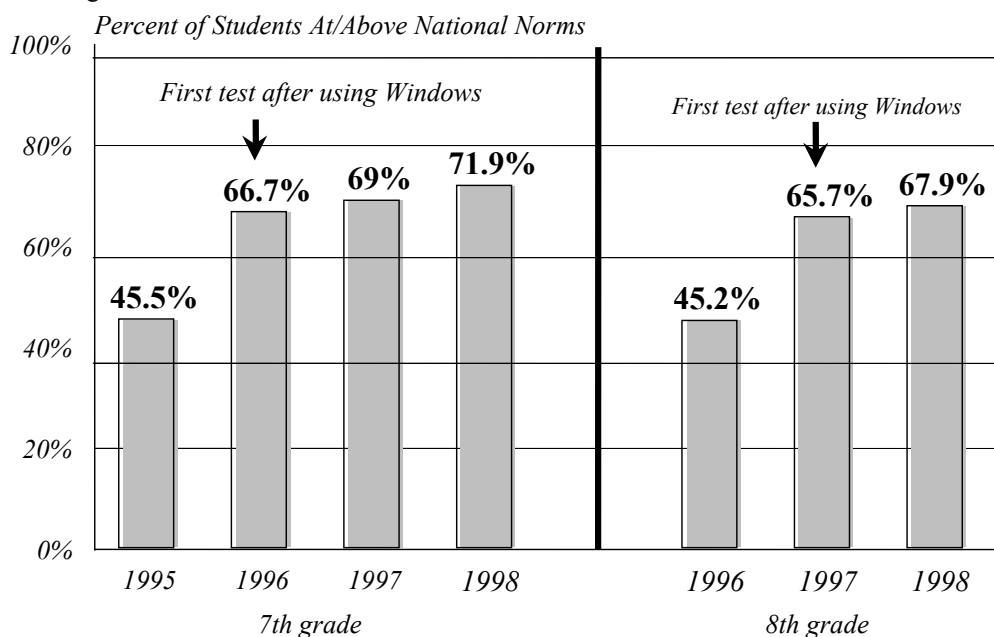
Student Manipulatives, Practice Workbook Spanish Edition, Pasaporte al algebra y a la geometría Pupil's Edition, Spanish Resource Binder, English-Spanish Problem Solving Transparencies, McDougal Littell Middle School Tutorial CD-ROM.

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "**not available**" in the space.

Earlier editions of *Passport to Algebra and Geometry* have been in use for several years across the United States. **A document presenting evidence of effectiveness is available from the publisher.** Here is one example:

The Math Department Chair from Canty Elementary School in Chicago reports that "there has been a significant improvement since using *Windows* [the first edition of *Passport to Algebra and Geometry*] that can be seen in the IGAP and Iowa Test scores." Students' scores on the math portion of the ITBS increased 20 percentage points compared to the national average.



Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: Algebra 1: Concepts and Skills with Algebra 1: Concepts and Skills Online
Author: Larson, et al. Copyright: 2003
ISBN 0-618-26320-9 Course/Content Area: Algebra I
Intended Grade or Level: 8-12 Readability Level: 6.0
List Price: \$125.80 Lowest Wholesale Price: \$94.35

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Algebra 1: Concepts and Skills presents a straightforward approach to the study of the fundamentals of algebra. The text presents a broad range of algebra topics with a focus on concept development and skills acquisition. Students begin study with the basics, such as variables and exponents, and an introduction to functions. They review properties of real numbers and then work with solving, graphing, and writing linear equations. This sets the stage for work with inequalities and systems. Exponential functions lead to specific of quadratic functions and factoring. The course concludes with rational equations and work with radicals.

Student Experiences

The *Algebra 1: Concepts and Skills* program has been developed to meet the needs of a wide variety of students. It is appropriate, particularly, for on-level students and students working at less-than-proficient levels that wish to remain in an academic course and have the option of proceeding to geometry. The fundamentals of algebra are supported with abundant practice and comprehensive test preparation. On level content is presented in manageable “chunks”. The program provides a flexible instructional approach that includes opportunities for conceptual development through the use of manipulatives and technology. Lessons incorporate visual approaches – supportive, streamlined explanations with lots of clear, color-coded and diagrammed examples. Students encounter multiple Checkpoints before they begin the practice set. Summary Boxes focus students’ attention to important content and incorporate multiple representations – verbal, algebraic and graphic. Exercise sets offer Guided Practice emphasizing critical vocabulary and skills. Students have access to an abundance of skills practice as well as quality application problems.

Additional features that are unique to the eEdition online, interactive version of the text include interactive simulations, Progress Check quizzes and reports, and the ability to customize instruction. Bookmarking and search features are two of the useful tools available to students. Teachers can establish class forums that allow students to respond to questions or discussion topics. The Progress Checks provide assessment reports by individuals or classes to help teachers make important instructional decisions. Through notes features, teachers can direct individuals’ progress, provide web links, and post class announcements. Teachers can attach electronic files to page notes or assignments. These files can be their own, or may be taken from the electronic program resources. Students may also turn in assignments electronically. Additionally, teachers can participate in a discussion forum shared with other teachers using the online book.

Assessment

The text provides a pre-course test, pre-course practice, and an end-of-course test. Every Chapter Study Guide includes a Readiness Quiz. Checkpoint Exercises are integrated after each example. The teacher’s edition provides Closure Questions, Homework Checks, and Mini-Quizzes for every lesson. There are 3 quizzes per chapter and 2 formal tests – one in multiple-choice format. Cumulative practice is provided after every third chapter and there are corresponding cumulative tests in the appropriate Chapter Resource Books.

The Chapter Resource Books also include formal quizzes, 2 chapter tests, an SAT/ACT chapter test, alternative assessments & math journal, and a project with scoring rubric.

Additionally, there is a *Standardized Test Practice Workbook* and the test generator.

The eEdition online version of the text includes interactive progress checks for students. Teachers are provided with assessment reports (by individuals or classes) that will help them make important instructional decisions.

Organization

Algebra 1: Concepts and Skills is organized in a single-volume pupil's edition that provides 12 sequential chapters of study. It is intended for one year (two semesters) of academic study or an equivalent block of time. Additionally, a two-year split volume, with appropriate teacher resources, is available for a two-year course of study.

Every chapter opens with a Study Guide designed to review basic vocabulary and skills and prepare students for work in the chapter. A clear, predictable lesson format is used throughout the course. Problem Solving skills are supported by the frequent inclusion of the *Verbal Model for Problem Solving*. *Mixed Review* and *Maintaining Skills* sections provide consistent skills maintenance in every lesson. Standardized Test Preparation is included in every lesson and at the end of each chapter. Cumulative Review is provided in every third chapter. The *Maintaining Skills* page at the end of each chapter review basic skills in preparation for the next chapter.

Each lesson and chapter is supported by a consistent set of resources. The majority of print resources are organized into Chapter Resource Books. Teachers have access to many technological tools to aid instruction, review, and assessment.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Teacher's Edition, Teacher's Resource Package, Key Skills Review: Preparing for Volume 2, Pacing and Lesson Planning Guide for Volumes 1 & 2, Multi-Language Glossary, Overhead Algebra Tile Kit, Teaching Mathematics Using Technology, Resources in Spanish, Extra Example Transparencies with Standardized Test Practice, Answer Transparencies for Checking Homework, Starting Points: Alternative Lesson Opener's Transparency Package, Instant Replay: Video Review Games, Electronic Teacher Tools CD-ROM, Electronic Lesson Presentations CD-ROM, Time-Saving Test & Practice Generator CD-ROM, www.mcdougallittell.com

Free per school building: Personal Student Tutor CD-ROM with Site License

Free per pupil's edition purchased for the life of the adoption: Practice Workbook with Examples Pupil's Edition

Choice of one per pupil's edition purchased for the life of the adoption: Basic Skills Workbook: Diagnosis and Remediation Pupil's Edition or Standardized Test Practice Workbook Pupil's Edition

- **Available Ancillary Materials**

Student Algebra Tile Kit, Personal Student Tutor CD-ROM, Personal Student Tutor CD-ROM 10 Pack,

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "**not available**" in the space.

Evidence of effectiveness is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: Geometry: Concepts and Skills
Author: Larson, et al. Copyright: 2003
ISBN: 0-618-08758-3 Course/Content Area: Geometry
Intended Grade or Level: 9-12 Readability Level: 6.3
List Price: \$72.08 Lowest Wholesale Price: \$54.06

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

The *Geometry: Concepts and Skills* program is designed to meet the needs of a wide variety of students. It is appropriate, particularly, for on-level students and students working at less-than-proficient levels that wish to remain in an academic course and have the option of proceeding to higher mathematics courses. The text presents a broad range of geometry topics with a de-emphasis on rigorous proof and an emphasis on concept development and skills acquisition. After an introduction to the basics of geometry, students work with segments and angles, parallel and perpendicular lines, and triangles relationships. In Chapter 5, students work with proving triangles congruent. After a study of quadrilaterals and similarity, students are ready to explore polygons and area. Work continues with measurement of solids. The course closes with right triangle trigonometry and circle topics.

Additionally, algebra skills are reviewed in every lesson and comprehensive Algebra Reviews are included at the end of each chapter.

Student Experiences

The program provides a flexible instructional approach that includes opportunities for conceptual development through the use of manipulatives and technology, a wide range of examples and practice, frequent student help notes and other study features in the pupil's edition.

Manipulative-based *Activity* lessons involve students in investigation of important topics. Lessons provide for exploration, group activity, and discussion. On level content is presented in smaller "chunks" – usually one focused goal per lesson. A variety of visual approaches are used to present information. Streamlined explanations are supported with lots of clear, color-coded and diagrammed examples. A strong *Visualize It!* strand flows through the course, from interesting visual presentations of concepts, to *Visualize It! Notes* that provide helpful hints for remembering ideas, to *Visualize It! Exercises* that help students analyze diagrams and draw conclusions. Students encounter multiple *Checkpoints* through the Examples, before they begin the practice set. *Summary Boxes* focus students' attention to important content and incorporate multiple representations – verbal, algebraic, and graphic. Exercise sets offer comprehensive *Guided Practice* emphasizing critical vocabulary and skills. Students have access to an abundance of skills practice as well as realistic workplace problems. *Technology Activities* are incorporated when appropriate and students are supported through the McDougal Littell website. *Mixed Review* and *Algebra Skills* sections provide consistent skills maintenance in every lesson. *Standardized Test Preparation* is included in every lesson and at the end of each chapter. Every chapter includes a *Brain Games* page near the end that motivates students to review important content from the chapter. *Algebra Review* is provided at the end of every chapter. Cumulative Practice/Review is provided in every third chapter.

Assessment

The text provides a pre-course test, pre-course practice, and an end-of-course test. Every Chapter Study Guide includes a Readiness Quiz. Checkpoint Exercises are integrated with examples. The teacher's edition provides Concept Checks, Homework Checks, and Mini-Quizzes for every lesson. There are 2-3 quizzes per chapter and 2

formal tests – one in multiple-choice format. Cumulative practice is provided after every third chapter and there are corresponding cumulative tests in the appropriate Chapter Resource Books.

The Chapter Resource Books also include formal quizzes, 2 chapter tests, an SAT/ACT chapter test, alternative assessments & math journal, and a project with scoring rubric.

The Test and Practice Generator provides teachers with the ability to design assessments as they wish.

Organization

The single-volume edition of *Geometry: Concepts and Skills* is part of the sixth through twelfth grade mathematics series authored by Ron Larson, Lee Stiff, and Laurie Boswell. This program provides strong support for students, right in their textbook, through chapter study guides, a predictable lesson format, clear goals, readable lessons, a consistent problem solving model, leveled practice correlated to examples, and a wealth of “Student Help” support notes.

The teacher’s edition provides all the information to help teachers through planning, teaching, and assessing. Each lesson and chapter is supported by a consistent set of resources. The majority of print resources are organized into Chapter Resource Books. Teachers have access to many technological tools to aid instruction, review, and assessment.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Teacher’s Edition, Teacher’s Resource Package, Resources in Spanish, Multi-Language Glossary, Answer Transparencies for Checking Homework, Warm-Up Transparencies & Daily Homework Quiz, Visualize It! Transparencies, Geometry in Motion Video, Electronic Teacher Tools CD-ROM, Test & Practice Generator CD-ROM, www.mcdougallittell.com.

Free per pupil’s edition purchased for the life of the adoption: Practice Workbook with Examples Pupil’s Edition

- **Available Ancillary Materials**

N/A

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate “not available” in the space.*

Evidence of effectiveness is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: McDougal Littell Algebra 1
Author: Larson, et al. Copyright: 2001
ISBN: 0-395-93776-0 Course/Content Area: Algebra I
Intended Grade or Level: 8-12 Readability Level: 6.3
List Price: \$69.88 Lowest Wholesale Price: \$52.41

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

McDougal Littell Algebra 1 provides a complete study of contemporary topics, preparing students to continue to higher math courses. The first two chapters provide a thorough review of important skills related to variables, exponents, order of operations and the distributive property. Students also develop an understanding of functions, which is woven throughout the course. Chapters 3-7 provide intensive study of linear equations, functions, and inequalities. Further study of functions, from exponential, quadratic & polynomial functions, to rational functions, as well as a look at radical equations, the Pythagorean Theorem and trigonometric ratios completes the course.

This text is also available in accessible electronic format.

Student Experiences

McDougal Littell Algebra 1 makes math accessible for students to learn and flexible for teachers to teach. The use of multiple representations – algebraic, verbal, and graphic explanations – is strong in every lesson. Important concepts are made understandable to all students through instructional diagrams, graphics and color-coding, interactive activities, and numerous examples throughout the textbook. Lessons feature problem solving, data analysis, and real-world applications. Students have support when they are learning on their own through skills review before each chapter, practice exercises correlated to the examples, Homework Help notes in the text and on the Internet. Manipulatives and technology, especially graphing calculators, are used to explore concepts throughout the program. Optional extended projects are available through the course.

Assessment

Assessment is thoroughly embedded in the complete instructional cycle of this program:

- A diagnostic test of basic skills is provided in the *Basic Skills Workbook*.
- The pupil's edition contains Chapter Study Guides, frequent Quizzes, Free Response and Standardized Format Chapter Tests for practice.
- The teacher's edition offers Homework Checks, lesson Closure Questions, Activity Assessments,
- Every Chapter Resource Book contains Daily Homework Quizzes, Lesson Quizzes, Chapter Review Games, 3 Chapter Tests, SAT/ACT Chapter Tests, a Project, & Alternative Assessments with Rubrics and Math Journal.

Organization

The single volume pupil's edition is organized as a true learning tool for students:

- The *clear, consistent, readable lesson format* includes concise goals, clear explanations, highlighted vocabulary, visuals and diagrams, summary boxes, and a variety of examples.
- *Focus on problem solving and application problems* with frequent use of the *Verbal Model for Problem Solving* provide a consistent framework for the students when asked to solve word problems.

- The *ample, well-balanced practice sets* with exercises keyed to examples are also leveled in the teachers' edition.
- Support for students – in the book – is provided through *Student Help* notes including “Skills Review”, “Look Back” references, “Extra Practice”, and references to help on the McDougal Littell website.
- There is *Standardized test preparation* in every lesson, as well as at the end of every chapter.
- The *Mixed Reviews* in every lesson provide daily skills maintenance.
- *Study Guides* at the beginning of each chapter give a preview of topics students will be studying. They also provide quick prerequisite skills review and offer a study strategy for each chapter.
- The *Skills Review Handbook*, at the back of the student book, provides explanations, examples and practice for skills considered prerequisite to the course.

Resource Materials

Gratis Items To Be Provided And Under What Conditions

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Kentucky Teacher's Edition, Teacher's Resource Package, Extra Example Transparencies with Standardized Test Practice, Answer Transparencies for Checking Homework, Starting Points: Alternative Lesson Opener's Transparency Package, Preparing for the Kentucky Core Content Test Using McDougal Littell Algebra 1, Time-Saving Test & Practice Generator CD-ROM, Instant Replay: Video Review Games with Video Resource Book, Electronic Lesson Presentations CD-ROM, Electronic Teacher Tools CD-ROM, Resources in Spanish, Multi-Language Glossary, English/Spanish Chapter Reviews and Tests, Teaching Mathematics Using Technology, Overhead Algebra Tile Kit, www.mcdougallittell.com.

Free per school building: Personal Student Tutor CD-ROM with Site License

Free per pupil's edition purchased for the life of the adoption: Practice Workbook with Examples Pupil's Edition

Choice of one per pupil's edition purchased for the life of the adoption: Basic Skills Workbook: Diagnosis and Remediation Pupil's Edition or Standardized Test Practice Workbook Pupil's Edition

Available Ancillary Materials

Personal Student Tutor CD-ROM, Personal Student Tutor CD-ROM 10 Pack, Student Algebra Tile Kit

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate “not available” in the space.*

This text is part of the *McDougal Littell High School Mathematics* series, currently in the second year of use across the United States. As such, statistical evidence of effectiveness is very limited at this time.

89% of teacher-users surveyed reported that they were “very satisfied” and “extremely satisfied” with the program.

86% of teacher-users surveyed reported that the McDougal Littell program was “better” and “much better” than their previous textbook.

These schools in Los Angeles Unified School District began using *Algebra 1* during the 2000-2001 school year. Each showed an increase in mean NCE scores on the SAT/9 after one year of use:

School	8 th Grade Spring 2000	9 th Grade Spring 2001	Net Gain
Jefferson High School	33.9	38.2	+4.3
North Hollywood High School	45.0	47.6	+2.6
Roosevelt High School	39.3	43.6	+4.3
Van Nuys High School	47.3	51.2	+3.9
Wilson High School	41.6	44.3	+2.7

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: McDougal Littell Algebra 1 with McDougal Littell Algebra 1 Online
Author: Larson, et al. Copyright: 2003
ISBN: 0-618-26321-7 Course/Content Area: Algebra I
Intended Grade or Level: 8-12 Readability Level: 6.3
List Price: \$125.80 Lowest Wholesale Price: \$94.35

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

McDougal Littell Algebra 1 provides a complete study of contemporary topics. The first two chapters review important skills related to variables, exponents, order of operations and the distributive property. Functions are woven throughout the course. Chapters 3-7 provide intensive study of linear equations, functions, and inequalities. The text continues with functions, from exponential, quadratic & polynomial functions, to rational functions, as well as a look at radical equations. The Pythagorean theorem and trig ratios completes the course.

Student Experiences

McDougal Littell Algebra 1 makes math accessible for students to learn and flexible for teachers to teach. The use of multiple representations – algebraic, verbal, and graphic explanations – is strong in every lesson. Important concepts are made understandable to all students through instructional diagrams, graphics and color-coding, interactive activities, and numerous examples throughout the textbook. Lessons feature problem solving, data analysis, and real-world applications. Students have support when they are learning on their own through skills review before each chapter, practice exercises correlated to the examples, Homework Help notes in the text and on the Internet. Manipulatives and technology, especially graphing calculators, are used to explore concepts throughout the program. Optional extended projects are available through the course.

Additional features that are unique to the eEdition online, interactive version of the text include interactive simulations, Progress Check quizzes and reports (for teachers), and the ability to customize instruction. Bookmarking and search features are two of the useful tools available to students. Teachers can establish class forums that allow students to respond to questions or discussion topics. Through notes features, teachers can direct individuals' progress, provide web links, and post class announcements. Teachers can attach electronic files to page notes or assignments. These files can be their own, or may be taken from the electronic program resources. Students may also turn in assignments electronically. Additionally, teachers can participate in a discussion forum shared with other teachers using the online book.

Assessment

Assessment is thoroughly embedded in the complete instructional cycle of this program:

- A diagnostic test of basic skills is provided in the *Basic Skills Workbook*.
- The pupil's edition has Chapter Study Guides, Quizzes, Free Response & Standardized Format Chapter Tests.
- The teacher's edition offers Homework Checks, lesson Closure Questions, Activity Assessments
- Every Chapter Resource Book contains Daily Homework Quizzes, Lesson Quizzes, Chapter Review Games, Chapter Tests, SAT/ACT Chapter Tests, a Project, and Alternative Assessments with Rubrics and Math Journal.
- The eEdition online version of the text includes interactive progress checks for students and reports for teachers.

Organization

The single volume pupil's edition is organized as a true learning tool for students:

- The *clear, consistent, readable lesson format* includes concise goals, clear explanations, highlighted vocabulary, visuals and diagrams, summary boxes, and a variety of examples.
- *Focus on problem solving and application problems* with frequent use of the *Verbal Model for Problem Solving* provide a consistent framework for the students when asked to solve word problems.
- The *ample, well-balanced practice sets* with exercises keyed to examples are also leveled in the teachers' edition.
- Support for students – in the book – is provided through *Student Help* notes including “Skills Review”, “Look Back” references, “Extra Practice”, and references to help on the McDougal Littell website.
- The *Mixed Reviews* in every lesson provide daily skills maintenance.
- *Study Guides* at the beginning of each chapter give a preview of topics students will be studying. They also provide quick prerequisite skills review and offer a study strategy for each chapter.
- The *Skills Review Handbook*, at the back of the student book, provides explanations, examples and practice for skills considered prerequisite to the course.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Kentucky Teacher's Edition, Teacher's Resource Package, Extra Example Transparencies with Standardized Test Practice, Answer Transparencies for Checking Homework, Starting Points: Alternative Lesson Opener's Transparency Package, Preparing for the Kentucky Core Content Test Using McDougal Littell Algebra 1, Time-Saving Test & Practice Generator CD-ROM, Instant Replay: Video Review Games with Video Resource Book, Electronic Lesson Presentations CD-ROM, Electronic Teacher Tools CD-ROM, Resources in Spanish, Multi-Language Glossary, English/Spanish Chapter Reviews and Tests, Teaching Mathematics Using Technology, Overhead Algebra Tile Kit, www.mcdougallittell.com.

Free per school building: Personal Student Tutor CD-ROM with Site License

Free per pupil's edition purchased for the life of the adoption: Practice Workbook with Examples Pupil's Edition

Choice of one per pupil's edition purchased for the life of the adoption: Basic Skills Workbook: Diagnosis and Remediation Pupil's Edition or Standardized Test Practice Workbook Pupil's Edition

- **Available Ancillary Materials**

Personal Student Tutor CD-ROM, Personal Student Tutor CD-ROM 10 Pack, Student Algebra Tile Kit

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education.

This text is part of the *McDougal Littell High School Mathematics* series, currently in the second year of use across the United States. As such, statistical evidence of effectiveness is very limited at this time. 89% of teacher-users surveyed reported that they were “very satisfied” and “extremely satisfied” with the program. 86% of teacher-users surveyed reported that *McDougal Littell Algebra* was “better” and “much better” than their previous book.

These schools in Los Angeles Unified School District began using *Algebra 1* in the 2000-2001 school year. Each showed an increase in mean NCE scores on the SAT/9 after one year of use:

School	8 th Grade Spring 2000	9 th Grade Spring 2001	Net Gain
Jefferson High School	33.9	38.2	+4.3
North Hollywood High School	45.0	47.6	+2.6
Roosevelt High School	39.3	43.6	+4.3
Van Nuys High School	47.3	51.2	+3.9
Wilson High School	41.6	44.3	+2.7

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: McDougal Littell Geometry
Author: Larson, et al. Copyright: 2001
ISBN: 0-395-93777-9 Course/Content Area: Geometry
Intended Grade or Level: 9-12 Readability Level: 6.6
List Price: \$72.08 Lowest Wholesale Price: \$54.06

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

McDougal Littell Geometry establishes a strong strand of logical reasoning and critical thinking beginning with Inductive Reasoning in Lesson 1.1. A variety of strategies for proof, including paragraph, flow, and two-column proofs are developed through Chapters 2 and 3. Students then study lines, triangles and quadrilaterals. Coordinate proof is integrated throughout. The use of multiple representations helps students visualize important concepts. Optional activities such as constructions, paper folding, and other manipulative activities help them internalize important topics. Technology is also incorporated. Applications are fundamental to every lesson, from goals, to examples and exercises. Transformational geometry is presented before students work with similarity. The course progresses to right triangles and trigonometry topics, the study of circles, and area and volume concepts. A strong Algebra Review strand weaves through the program and is featured in every other chapter.

Student Experiences

McDougal Littell Geometry makes math accessible for students to learn and flexible for teachers to teach. Instructional diagrams, graphics and color-coding, interactive activities, and numerous examples throughout the textbook promote understanding. Students receive support when they are learning on their own through skills review before each chapter, practice exercises correlated to the examples, Homework Help notes in the text and on the Internet. Manipulatives and technology are used appropriately to explore concepts throughout the program. A wide variety of resources help teachers adapt the program to the needs of their students.

Assessment

Assessment is thoroughly embedded in the complete instructional cycle of this program:

- A diagnostic test of basic skills is provided in the *Basic Skills Workbook*.
- The pupil's edition contains Chapter Study Guides, frequent Quizzes, Free Response and Standardized Format Chapter Tests for practice.
- The teacher's edition offers Homework Checks, lesson Closure Questions, Activity Assessments,
- Every Chapter Resource Book contains Daily Homework Quizzes, Lesson Quizzes, Chapter Review Games, Chapter Tests, SAT/ACT Chapter Tests, a Project, and Alternative Assessments with Rubrics and Math Journal.
- Other resources include the *Standardized Test Practice Workbook* and the Test and Practice Generator.

Organization

The single volume pupil's edition is organized as a true learning tool for students:

- The *clear, consistent, readable lesson format* includes concise goals, clear explanations, highlighted vocabulary, visuals and diagrams, summary boxes, and a variety of examples.
- *Focus on applications* of geometry topics appear in the goals, examples and exercises.

- The *ample, well-balanced practice sets* with exercises keyed to examples in the lesson are also leveled in the teachers' edition.
- Support for students – in the book – is provided through *Student Help* notes including “Skills Review”, “Look Back” references, “Extra Practice”, and references to help on the McDougal Littell website.
- There is *Standardized test preparation* in every lesson, as well as at the end of every chapter.
- The *Mixed Reviews* in every lesson provide daily skills maintenance.
- *Study Guides* at the beginning of each chapter give a preview of topics students will be studying. They also provide quick prerequisite skills review and offer a study strategy for each chapter.
- The *Skills Review Handbook*, at the back of the student book, provides explanations, examples and practice for skills considered prerequisite to the course.

The teacher's edition provides comprehensive planning and pacing notes, includes extra examples, checkpoint and closure questions for every lesson, and suggests creative teaching ideas for meeting individual needs.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**
All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.
Free per classroom teacher: Kentucky Teacher's Edition, Teacher's Resource Package, Extra Example Transparencies with Standardized Test Practice, Answer Transparencies for Checking Homework, Starting Points: Alternative Lesson Opener's Transparency Package, Preparing for the Kentucky Core Content Test Using McDougal Littell Geometry, Time-Saving Test and Practice Generator CD-ROM, Geometry in Motion Video with Animation Directory, Electronic Lesson Presentations CD-ROM, Electronic Teacher Tools CD-ROM, Resources in Spanish, Multi-Language Glossary, English/Spanish Chapter Reviews and Tests.
www.mcdougallittell.com.
Free per school building: Personal Student Tutor CD-ROM with Site License
Free per pupil's edition purchased for the life of the adoption: Practice Workbook with Examples Pupil's Edition
Choice of one free per pupil's edition purchased for the life of the adoption: Basic Skills Workbook: Diagnosis and Remediation Pupil's Edition or Standardized Test Practice Workbook Pupil's Edition
- **Available Ancillary Materials**
 Personal Student Tutor CD-ROM, Personal Student Tutor CD-ROM 10 Pack

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate “not available” in the space.*

This text is part of the *McDougal Littell High School Mathematics* series, currently in the second year of use across the United States. As such, statistical evidence of effectiveness is not available at this time.

89% of teacher-users surveyed reported that they were “very satisfied” and “extremely satisfied” with the program.

86% of teacher-users surveyed reported that the McDougal Littell program was “better” and “much better” than their previous textbook.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)

Web Address: www.mcdougallittell.com

Title: McDougal Littell Algebra 2

Author: Larson, et al. Copyright: 2001

ISBN: 0-395-93778-7 Course/Content Area: Algebra II

Intended Grade or Level: 9-12 Readability Level: 7.4

List Price: \$74.28 Lowest Wholesale Price: \$55.71

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

McDougal Littell Algebra 2 provides a quick review of Algebra 1 topics in Chapter 1 while extending the study of equations and inequalities. Work with functions begins in Chapter 2. The course of study progresses from linear and quadratic functions, to polynomial, exponential and logarithmic functions, and then rational functions. Sequences and series are investigated in Chapter 11. While probability and statistics topics are integrated throughout the course of study, Chapter 12 focuses on particularly important concepts. The study of trigonometric functions completes the course.

Student Experiences

McDougal Littell Algebra 2 makes math accessible for students to learn and flexible for teachers to teach. Important concepts are made understandable to all students through instructional diagrams, graphics and color-coding, interactive activities, and numerous examples throughout the textbook. Students receive support when they are learning on their own through skills review before each chapter, homework exercises correlated to the examples, and Homework Help notes in the text and on the Internet. Technology, especially graphing calculators, is used to explore concepts throughout the program. A wide variety of resources help teachers adapt the program to the needs of their students.

Assessment

Assessment is thoroughly embedded in the complete instructional cycle of this program:

- A diagnostic test of basic skills is provided in the *Basic Skills Workbook*.
- The pupil's edition contains Chapter Study Guides, frequent Quizzes, Free Response and Standardized Format Chapter Tests for practice.
- The teacher's edition offers Homework Checks, lesson Closure Questions, Activity Assessments,
- Every Chapter Resource Book contains Daily Homework Quizzes, Lesson Quizzes, Chapter Review Games, Chapter Tests, SAT/ACT Chapter Tests, a Project, and Alternative Assessments with Rubrics and Math Journal.
- Other resources include the *Standardized Test Practice Workbook* and the Test and Practice Generator.

Organization

The single volume pupil's edition is organized as a true learning tool for students:

- The *clear, consistent, readable lesson format* includes concise goals, clear explanations, highlighted vocabulary, visuals and diagrams, summary boxes, and a variety of examples.
- *Focus on problem solving and application problems* with frequent use of the *Verbal Model for Problem Solving* provide a consistent framework for the students when asked to solve word problems.
- The *ample, well-balanced practice sets* with exercises keyed to examples in the lesson are also leveled in the teachers' edition.

- Support for students – in the book – is provided through *Student Help* notes including “Skills Review”, “Look Back” references, “Extra Practice”, and references to help on the McDougal Littell website.
- There is *Standardized test preparation* in every lesson, as well as at the end of every chapter.
- The *Mixed Reviews* in every lesson provide daily skills maintenance.
- *Study Guides* at the beginning of each chapter give a preview of topics students will be studying. They also provide quick prerequisite skills review and offer a study strategy for each chapter.
- The *Skills Review Handbook*, at the back of the student book, provides explanations, examples and practice for skills considered prerequisite to the course.

The teacher’s edition provides comprehensive planning and pacing notes, includes extra examples, checkpoint and closure questions for every lesson, and suggests creative teaching ideas for meeting individual needs.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Kentucky Teacher’s Edition, Teacher’s Resource Package, Extra Example Transparencies with Standardized Test Practice, Answer Transparencies for Checking Homework, Starting Points: Alternative Lesson Opener’s Transparency Package, Preparing for the Kentucky Core Content Test Using McDougal Littell Algebra 2, Time-Saving Test & Practice Generator CD-ROM, Instant Replay: Video Review Games with Video Resource Book, Electronic Lesson Presentations CD-ROM, Electronic Teacher Tools CD-ROM, Resources in Spanish, Multi-Language Glossary, English/Spanish Chapter Reviews and Tests, Teaching Mathematics Using Technology, www.mcdougallittell.com.

Free per school building: Personal Student Tutor CD-ROM with Site License

Free per pupil’s edition purchased for the life of the adoption: Practice Workbook with Examples Pupil’s Edition

Choice of one free per pupil’s edition purchased for the life of the adoption: Basic Skills Workbook: Diagnosis and Remediation Pupil’s Edition or Standardized Test Practice Workbook Pupil’s Edition

- **Available Ancillary Materials**

Personal Student Tutor CD-ROM, Personal Student Tutor CD-ROM 10 Pack

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate “not available” in the space.*

This text is part of the *McDougal Littell High School Mathematics* series, currently in the second year of use across the United States. As such, statistical evidence of effectiveness is not available at this time.

89% of teacher-users surveyed reported that they were “very satisfied” and “extremely satisfied” with the program.

86% of teacher-users surveyed reported that the McDougal Littell program was “better” and “much better” than their previous textbook.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: Precalculus
Author: Larson, et al. Copyright: 2001
ISBN: 0-618-05285-2 Course/Content Area: Pre-Calculus
Intended Grade or Level: 9-12 Readability Level: 9.61/8.86 (with/without technical terms)
List Price: \$103.96 Lowest Wholesale Price: \$77.97

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Precalculus provides a strong preparation for calculus and a concise review of algebraic and trigonometric principles for average and above average students. The text addresses algebraic, exponential, and logarithmic functions and their graphs. It introduces trigonometric functions, first in terms of the unit-circle approach and then by using right triangles. All examples, applications, and exercises have been selected for their relevance to calculus. This text may be used in a one- or two-semester course.

Student Experiences

Precalculus focuses on student success, accessibility, and flexibility. Each chapter begins with a study guide, which includes a comprehensive overview of the chapter concepts, a list of important vocabulary, a list of study resources, and a general study tip. Lessons open with objectives and an interesting real-life application.

Exercise sets include *Synthesis* problems, which check conceptual understanding. Lessons include *Review* exercises. The text offers flexibility for integrating technology with optional graphing calculator and computer graphing utilities.

Assessment

The *Study and Solutions Guide* contains practice tests with solutions and a section of study strategies. The teacher's Test Item File and Resource Guide contains multiple-choice, open-ended, and writing test items coded by level of difficulty. (Technology items are coded for easy reference.) There is also a bank of chapter tests with answer keys, two final exam forms, and materials for alternative assessment. The Test Generator provides the same test items, while also offering the teacher the flexibility to incorporate his/her own test items as well.

Organization

The program centers around a single-volume student edition, supported by student resources and teacher resources.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**
All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Instructor's Annotated Edition, Test Item File, Complete Solutions Guide, Test Generator (Windows/ Macintosh), Graphing Technology Guide, Graphing Technology Video, Teaching Mathematics Using Technology, <http://college.hmco.com>.

One class set (25) free per classroom teacher: Study and Solutions Guide

Free per pupil's edition purchased for the life of the adoption: Interactive CD-ROM

- **Available Ancillary Materials:** Precalculus Video Series

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate “not available” in the space.*

Research data is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: Precalculus with Limits: A Graphing Approach
Author: Larson, et al. Copyright: 2001
ISBN: 0-618-05291-7 Course/Content Area: Pre-Calculus
Intended Grade or Level: 9-12 Readability Level: 8.86 (with technical terms)
List Price: \$103.96 Lowest Wholesale Price: \$77.97

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Precalculus with Limits thoroughly prepares students to study calculus. The text provides an introduction chapter of prerequisite content review, including representation of data, graphs of equations, lines in the plane, and solving equations and inequalities algebraically and graphically. Chapters 1-4 give a comprehensive study of functions. Chapters 5 & 6 cover analytic trigonometry and additional topics such as the Law of Sines and Cosines. Chapters 7-9 address systems, matrices, and sequences and series. Analytic geometry topics are covered in Chapters 10 and 11. Chapter 12 covers limits and an introduction to calculus.

Student Experiences

Precalculus with Limits strengthens students' conceptual understanding and problem-solving skills through a combination of graphical, analytical, and numerical approaches and through abundant applications using real-life data to demonstrate the usefulness of calculus in a variety of fields. It is intended for courses in which graphic calculators are readily available to all students. Each chapter opens with "The Big Picture", a review of important vocabulary, and study tools and tips. Lesson Objectives help students stay focused. Section-by-section chapter summaries reinforce skills and refer students to related Review Exercises. Carefully crafted learning tools placed throughout the text include Chapter Projects, Chapter Tests, Cumulative Tests, Explorations, Study Tips, Historical Notes, and Writing About Math features. Students have extra support with the *Study and Solutions Guide*.

Assessment

The *Study and Solutions Guide* contains practice tests with solutions and a section of study strategies. The teacher's Test Item File contains multiple-choice, open-ended, and writing test items coded by level of difficulty. (Technology items are coded for easy reference.) There is also a bank of chapter tests with answer keys, two final exam forms, and materials for alternative assessment. The Test Generator provides the same test items, while also offering the teacher the flexibility to incorporate his/her own test items as well.

Organization

The program centers around a single-volume student edition and students are supported with the *Study and Solutions Guide*.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Instructor's Annotated Edition, Test Item File, Complete Solutions Guide, Test Generator (Windows/ Macintosh), Graphing Technology Guide, Graphing Technology Video, Teaching Mathematics Using Technology, <http://college.hmco.com>.

One class set (25) free per classroom teacher: Study and Solutions Guide

Free per pupil's edition purchased for the life of the adoption: Interactive CD-ROM

- **Available Ancillary Materials:** Precalculus with Limits Video Series

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education.

NOTE: *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "not available" in the space.*

Research data is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)

Web Address: www.mcdougallittell.com

Title: Advanced Mathematics: Precalculus with Discrete Mathematics and Data Analysis

Author: Richard G. Brown Copyright: 2003

ISBN: 0-618-25037-9 Course/Content Area: Advanced Topics in Mathematics
7.2/6.0 (with/without

Intended Grade or Level: 9-12 Readability Level: technical terms

List Price: \$76.44 Lowest Wholesale Price: \$57.33

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Advanced Mathematics is a contemporary high school text that prepares students for more advanced studies. The comprehensive content includes precalculus concepts, trigonometry, discrete mathematics and data analysis, and an introduction to calculus. These topics are grouped together so that teachers have flexible options in teaching the content. Chapters 1-6 cover the core precalculus content. The first five chapters should be covered in sequence. Chapter 6 can, then, be taught at any time during the course. Chapters 7-11 provide a mini-course in trigonometry. If the teacher wishes to emphasize discrete mathematics and data analysis in the course, he /she may teach Chapters 13-18 directly following Chapter 5. (Chapter 12 requires some familiarity with trigonometry.) Chapters 19 and 20 cover limits and the introduction to calculus.

Student Experiences

Numerous examples, important highlighted results, and summaries make *Advanced Mathematics* accessible and easy to use. The real-world applications in lesson introductions, examples, and exercise sets help students see practical applications of mathematics in a variety of fields. Activities are embedded in lessons, where appropriate. Problem solving, reasoning, and communication skills are practiced throughout the exercise sets. Though the text is not dependent on technology, the use of calculators and computers throughout lessons, activities, and exercise sets fosters learning and prepares students for a technological work place. Exercises and activities that incorporate technology are clearly emphasized by a technology logo.

Assessment

The assessment program is comprehensive and varied. In addition to the chapter tests and cumulative reviews in the teacher's edition, two separate booklets of supplementary assessment materials are provided. The *Tests* include chapter tests and cumulative reviews to evaluate students' mastery of course content. The *Alternative Assessment* booklet includes suggestions for portfolio assessment and non-routine problems to challenge students' thinking and problem solving skills, as well as questions in college-entrance-examination formats, and spiral review exercises.

Organization

The textbook has been designed to meet the needs of a variety of course options. Because of its comprehensive topic coverage and extensive and varied exercise sets, it provides plenty of material from which to tailor a course to fit the needs of students, particular curriculum requirements, and teaching preferences. The teacher's resources include the helpful *Student Resource Guide for Study and Review*, an *Activities Book* and *Warm-Up Transparencies*.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Teacher's Edition, Teacher's Resource Package, Overhead Visuals, Solution Key, Multi-Language Glossary, Teaching Mathematics Using Technology, www.mcdougallittell.com.

- **Available Ancillary Materials**

N/A

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate “not available” in the space.*

When first developed, *Advanced Mathematics* was piloted in various locations with diverse student populations, including New Hampshire, Michigan, and California. Among the teachers using this program in the classroom was Richard Brown, the author. Dr. Brown was able to personally test each lesson with his students and continually revise the content based on his first-hand experiences. His experiences, combined with the comments of other teachers and students, made *Advanced Mathematics* one of the most successful pre-calculus books. *Advanced Mathematics* has been used by students in Arizona, California, Colorado, Connecticut, Delaware, Florida, Iowa, Idaho, Illinois, Kansas, Massachusetts, Maryland, Michigan, Minnesota, Missouri, Nebraska, New Hampshire, New Jersey, Ohio, Oregon, Pennsylvania, South Carolina, and Washington. Suggestions for improvements have been incorporated into the most recent edition of the program based upon the comments of teachers and students using the program, as well as meetings with other pre-calculus teachers, research groups, and leaders in mathematics education.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)

Web Address: www.mcdougallittell.com

Title: Calculus I with Precalculus (with Learning Tools CD-ROM)

Author: Larson, et al. Copyright: 2002

ISBN: 0-618-23093-9 Course/Content Area: Calculus

Intended Grade or Level: 9-12 Readability Level: 9.45 (with technical terms)

List Price: \$102.36 Lowest Wholesale Price: \$76.77

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Calculus 1 with Precalculus is really a blend of two texts: *Calculus* and *Precalculus*. The precalculus material is integrated throughout the text, just before related calculus content. The first three chapters cover the basic concepts of functions, and, in particular, algebraic functions. These preliminary chapters provide the foundation for the core calculus concepts – limits, derivatives, and integrals – that are covered in Chapter 3-6. After students have studied the core calculus concepts in the context of algebraic functions, they are prepared to work with the transcendental functions. Exponential and logarithmic functions are studied in Chapters 7 and 8. Trigonometric and inverse trigonometric functions are studied in Chapters 9-12. There is some flexibility with the organization to topics. Chapter P offers a review of basic algebra, which can be covered quickly or assigned as outside reading. Chapter 13 can be covered at almost any point in the course. Chapter 14 can be covered anytime after Chapter 11.

Schools that offer a course combining first semester calculus with precalculus have reported three advantages over the standard precalculus-calculus sequence taught in separate courses: (1) students are motivated because they study calculus early, (2) students study the calculus of the basic classes of elementary functions immediately after reviewing the fundamental theory of these functions, and (3) the course moves at a more manageable pace. With its review of precalculus, *Calculus 1 with Precalculus* is intended for a slower-paced calculus course. The text, does, however, prepare students to assimilate into the regular calculus sequence beyond first semester calculus. After using this text, students can enter a second semester calculus course at the same level as their peers.

Student Experiences

Each chapter opens with a real-world application. Open-ended questions guide students through an introduction to the main themes of the chapter. Every section begins with a list of objectives. The use of technology is optional in this text. Logos indicate exercises in which students need to use a graphing utility. They are encouraged to use graphing technology for visualizing concepts, verifying solutions, and facilitating computations. Point-of-use instructions for using graphing utilities appear in the margins. Optional Explorations are included as introductions for selected topics. They engage students in active discover of concepts and relationships. *Getting at the Concept* exercises check understanding of basic concepts. Selected exercise sets close with a *Section Project*

that contains an extended application. Every chapter closes with a set of *Review Exercises*. Students are supported with a *Study and Solutions Guide*.

The Learning Tools CD-ROM that accompanies the student text provides highly interactive reinforcement and extension of the textbook content. It includes Computer Algebra System (CAS) Explorations, a MathGraph tool that enables students to manipulate graphs from the text, MathArticles (printable articles from mathematics journals), Calculus Labs, Math Biographies, additional chapter content that the teacher may choose to incorporate into the course, and 3-D rotatable graphs.

Assessment

The *Study and Solutions Guide* contains practice tests with solutions and a section of study strategies. The teacher's Test Item File contains multiple-choice, open-ended, and writing test items coded by level of difficulty. (Technology items are coded for easy reference.) There is also a bank of chapter tests with answer keys, two final exam forms, and materials for alternative assessment. The Test Generator provides the same test items, while also offering the teacher the flexibility to incorporate his/her own test items as well.

Organization

The single-volume student's edition is supported by student resources and teacher resources.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**
All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.
Free per classroom teacher: Test Bank, Test Generator (Windows/ Macintosh), Graphing Technology Guide, Calculus I with Precalculus Videotapes, <http://college.hmco.com>
- **Available Ancillary Materials**
N/A

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "not available" in the space.*

Research data is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)

Web Address: www.mcdougallittell.com

Title: College Algebra

Author: Larson, et al. Copyright: 2001

ISBN: 0-618-05284-4 Course/Content Area: Advanced Algebra

Intended Grade or Level: 9-12 Readability Level: 8.86 (with technical terms)

List Price: \$92.76 Lowest Wholesale Price: \$69.57

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

College Algebra is an ideal text for students who need a solid understanding of algebra but have not decided about proceeding to calculus or upper level math courses. This text covers all the standard topics for a one-semester course in college algebra, including linear, quadratic, exponential, and logarithmic functions; matrices; determinants; linear programming; and probability. It prepares students for further courses in trigonometry, statistics, finite mathematics, calculus, discrete mathematics, and/or computer science. There are eight chapters plus a review chapter (Chapter P) that covers essential topics needed for college algebra and offers instructors flexibility in designing their course syllabi.

Student Experiences

The text's highly graphical and clear lesson presentation enables students to visualize mathematical relationships, an essential step toward understanding concepts and solving problems. Students gain the ability to work with real data and learn to relate algebra to the real world. Emphasis is given to data analysis and modeling, writing and multi-step exercises, and graphing and exploration problems. Located in the margin adjacent to the corresponding theorem, each *Think about the Proof* feature offers strategies for proving theorems. Optional use of graphing technology is now integrated throughout the text, including point-of-use Exploration and Technology boxes, as well as clearly-marked graphing exercises. *Focus on Concepts* provides end-of-chapter exercises designed to test students' basic understanding of concepts. Answers to all questions are given at the back of the text. *Chapter Projects* are extended applications that use real data, graphs, and modeling to offer students additional opportunities to think, discuss, and write about mathematics.

Assessment

The *Study and Solutions Guide* contains practice tests with solutions and a section of study strategies. The teacher's Test Item File contains multiple-choice, open-ended, and writing test items coded by level of difficulty. (Technology items are coded for easy reference.) There is also a bank of chapter tests with answer keys, two final exam forms, and materials for alternative assessment. The Test Generator provides the same test items, while also offering the teacher the flexibility to incorporate his/her own test items as well.

Organization

The single-volume student edition is supplemented by a Study and Solutions Guide.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc

Free per classroom teacher: Instructor's Annotated Edition, Study and Solutions Guide, Test Item File & Instructor's Resource Guide, Complete Solutions Guide, Test Generator (Windows/ Macintosh), Graphing Technology Guide, Teaching Mathematics Using Technology, <http://college.hmco.com>

Free per pupil's edition purchased for the life of the adoption: Interactive CD-ROM

- **Available Ancillary Materials**

College Algebra Videotapes

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "not available" in the space.*

Research data is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)

Web Address: www.mcdougallittell.com

Title: Algebra and Trigonometry

Author: Larson, et al. Copyright: 2001

ISBN: 0-618-05283-6 Course/Content Area: College Algebra

Intended Grade or Level: 9-12 Readability Level: 8.86 (with technical terms)

List Price: \$103.96 Lowest Wholesale Price: \$77.97

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Algebra and Trigonometry is designed to help students develop their proficiency in algebra, and to strengthen their understanding of the underlying concepts. Although the basic concepts of algebra are reviewed in the text, it is assumed that most students taking this course have completed two years of high school algebra. This book enhances algebra skills and introduces trigonometry through calculators and computers.

To help students visualize concepts, graphing is introduced early, with the discussion of the Cartesian plane in Chapter P and graphs of equations in Chapter 1. The review chapter (Chapter P) covers essential topics needed for college algebra and trigonometry and offers instructors flexibility in designing their course syllabi. Chapter 1 reviews equations and inequalities and Chapter 2 addresses functions and their graphs. Chapters 3-5 explore these topics: polynomial functions, rational functions and conics, and exponential and logarithmic functions. Chapters 6-8 provide a broad study of trigonometry. The text closes in Chapters 9-11 with a study of systems, matrices, determinants, linear programming, and probability.

Student Experiences

The book has a highly graphical presentation enabling students to visualize mathematical relationships, an essential step in preparing for future courses such as calculus. The text's strong visual appeal is combined with a wealth of contemporary applications and examples, and over 7,000 exercises – including many that make use of graphing calculators. Conceptual and exploratory problems encourage students to think and communicate about mathematics individually and in groups. Students have opportunity to collect and interpret data, to make conjectures, and to construct mathematical models. The text offers a broad range of exercises and labeled examples that include conceptual, computational, and applied problems to accommodate a wide variety of teaching and learning styles. Each section ends with a Group Activity designed to reinforce important concepts. As appropriate, graphing technology is integrated throughout the text, including point-of-use Exploration and Technology boxes, as well as clearly marked graphing exercises.

Focus on Concepts is a set of end-of-chapter exercises designed to test students' basic understanding of concepts. *Chapter Projects* are extended applications that use real data, graphs, and modeling to offer students additional opportunities to think, discuss, and write about mathematics. Located in the margin adjacent to the corresponding theorem, each *Think about the Proof* feature offers strategies for proving theorems.

Assessment

The *Study and Solutions Guide* contains practice tests with solutions and a section of study strategies. The teacher's Test Item File contains multiple-choice, open-ended, and writing test items coded by level of difficulty. (Technology items are coded for easy reference.) There is also a bank of chapter tests with answer keys, two final exam forms, and materials for alternative assessment. The Test Generator provides the same test items, while also offering the teacher the flexibility to incorporate his/her own test items as well.

Organization

The program centers around a single-volume student edition, supported by student resources and teacher resources.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc

Free per classroom teacher: Instructor's Annotated Edition, Study and Solutions Guide, Test Item File, Complete Solutions Guide, Test Generator (Windows/ Macintosh), Graphing Technology Guide, Teaching Mathematics Using Technology, <http://college.hmco.com>.

Free per pupil's edition purchased for the life of the adoption: Interactive CD-ROM

- **Available Ancillary Materials**

Algebra and Trigonometry Videotapes

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "not available" in the space.*

Research data is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)

Web Address: www.mcdougallittell.com

Title: Trigonometry

Author: Larson, et al. Copyright: 2001

ISBN: 0-618-05286-0 Course/Content Area: Trigonometry

Intended Grade or Level: 9-12 Readability Level: 8.89/8.03 (with/without technical terms)

List Price: \$92.76 Lowest Wholesale Price: \$69.57

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Designed for a one-semester course, this text introduces trigonometry with a unit-circle approach first, and then uses right triangles. In addition to trigonometric functions and their graphs, the text covers exponential and logarithmic functions and analytic geometry, including parametric equations and polar equations. The text provides an initial chapter of prerequisites (Chapter P) that reviews material from earlier courses.

Student Experiences

Trigonometry is noted for its straightforward lessons, clear writing, variety of examples, and predictable format. Numerous real-life applications, many using current, real data, are integrated throughout the examples and exercises. The rich exercise sets provide a wide variety of computational, conceptual and applied problems are graded from less to more challenging. Students are involved with skill practice, essays, conjectures, graphical reasoning, data analysis and explorations. Students have many opportunities to use technology: during explorations and in exercises that require the use of a graphing utility. Often, instructions for using graphing utilities are placed in the margins of the student's edition. Every section ends with a Group Activity. Every chapter ends with a Chapter Project.

Assessment

The *Study and Solutions Guide* contains practice tests with solutions and a section of study strategies. The teacher's Test Item File contains multiple-choice, open-ended, and writing test items coded by level of difficulty. (Technology items are coded for easy reference.) There is also a bank of chapter tests with answer keys, two final exam forms, and materials for alternative assessment. The Test Generator provides the same test items, while also offering the teacher the flexibility to incorporate his/her own test items as well.

Organization

The program centers around a single-volume student edition, supported by student resources and teacher resources.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc

Free per classroom teacher: Instructor's Annotated Edition, Study and Solutions Guide, Test Item File & Instructor's Resource Guide, Complete Solutions Guide, Test Generator (Windows/ Macintosh), Graphing Technology Guide, Teaching Mathematics Using Technology, <http://college.hmco.com>.

Free per pupil's edition purchased for the life of the adoption: Interactive CD-ROM

- **Available Ancillary Materials**

Trigonometry Videotapes

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate “not available” in the space.*

Research data is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)

Web Address: www.mcdougallittell.com

Title: Understandable Statistics

Author: Brase, et al. Copyright: 1999

ISBN: 0-395-90768-3 Course/Content Area: AP Statistics

Intended Grade or Level: 11-12 Readability Level: 8.89 (with technical terms)

List Price: \$104.36 Lowest Wholesale Price: \$78.27

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Understandable Statistics is a college-level program and is ideal for the Advanced Placement course in Statistics. Designed as an algebra-based course, the text assumes no prior background in statistical concepts and techniques. It provides a thorough grounding in such core topics as descriptive statistics, probability, estimation, and hypothesis testing. Chapters 10-12 cover regression and correlation, Chi-Square and F distribution, and nonparametric statistics.

Student Experiences

Throughout the program, students are asked to use statistical methods to interpret real-life data from newspapers, magazines, and other sources. A wide variety of full-color photographs, charts, tables, and graphs—plus illustrations from *USA Today*—bring statistical concepts and their applications to life.

Detailed examples show students how to select and use appropriate procedures. Guided exercises immediately follow each example, giving the student a chance to work with a new concept before another is presented. The student must examine and analyze characteristic features of a problem similar to the preceding example. Worked-out solutions appear beside each exercise to provide immediate reinforcement.

A special feature called “Linking Concepts” supports the development of conceptual understanding and communication. This feature includes problems that ask the student to discuss and write about key concepts covered in the text and to compare them to related concepts from earlier chapters.

Group projects require students to work collaboratively to discuss a problem, analyze data, and propose a solution. Writing exercises challenge students to extend their thinking about important topics.

Assessment

The *Study and Solutions Guide* contains practice tests with solutions and a section of study strategies. The teacher’s Test Item File contains multiple-choice, open-ended, and writing test items coded by level of difficulty.

(Technology items are coded for easy reference.) There is also a bank of chapter tests with answer keys, two final exam forms, and materials for alternative assessment. The Test Generator provides the same test items, while also offering the teacher the flexibility to incorporate his/her own test items as well.

Organization

The single-volume student's edition is supplemented by the student's *Study and Solutions Guide*. The accompanying *Technology Guide* includes material on software programs such as Minitab and on the TI-83 and other commonly used graphing calculators. It also provides instructions for using ComputerStat, a package of statistical software specifically designed for use with *Understandable Statistics*.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc

Free per classroom teacher: Instructor's Annotated Edition, Instructor's Resource Guide, Technology Guide, Study and Solutions Manual, Test Item File, Excel Guide, <http://college.hmco.com>.

Choice of one free per classroom teacher: Test Generator (Windows) or Test Generator (Macintosh)

- **Available Ancillary Materials**

N/A

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "not available" in the space.*

Research data is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)

Web Address: www.mcdougallittell.com

Title: Calculus (with Learning Tools CD-ROM)

Author: Larson, et al. Copyright: 2002

ISBN: 0-618-23973-1 Course/Content Area: AP Calculus

Intended Grade or Level: 11-12 Readability Level: 9.45/ 8.50 (with/without technical terms)

List Price: \$132.36 Lowest Wholesale Price: \$99.27

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Calculus has been the most widely used calculus text in high schools for many years. Its comprehensive coverage of both single- and multivariable topics makes it appropriate for Advanced Placement Calculus. This Seventh Edition addresses the latest Advanced Placement guidelines by integrating the use of graphing calculators throughout and by asking students to look at problems numerically, graphically, analytically, and verbally.

The text was one of the first to incorporate computer-generated art to aid in the visualization of concepts. The Seventh Edition continues to lead the way with a completely new art program created by state-of-the-art technology. The three dimensional surfaces, in particular, are the most realistic and accurate in any textbook. This text is also available in accessible electronic format.

Student Experiences

Calculus prepares students for success on the Advanced Placement AB and BC exams through a strong emphasis on conceptual understanding and skill building. The text might best be described as fitting midway between texts that define themselves as traditional or reform. Its approach is like that of a traditional text in that it is rooted in carefully developed theory, correct statements of theorems, inclusion of proofs, and mastery of traditional calculus skills. On the other hand, it embraces reform through technology, emphasis on real-life applications and modeling data exercises, conceptual and multi-part exercises, new explorations, and a myriad of student and teacher aids.

For example, each chapter begins with a full-page chapter motivator. As all calculus teachers know, one of the difficulties in teaching calculus is that they are often answering questions that students have not yet asked. The motivators address this dilemma by presenting real-situations with exploratory and essay questions. As students attempt to use the techniques of their current skill set to answer the questions, they will learn to appreciate the power and efficiency of the new calculus techniques presented in the chapter.

The text encourages students to problem-solve by using numerical, graphical, and analytical approaches, and offers an array of new types of exercises and problem-solving strategies. Additionally, technology is integrated into examples and exercises and demonstrate the usefulness of graphing calculators and computers in problem-solving.

P.S. Problem Solving exercises at the end of each chapter helps students relate the calculus to real-world problems and applications. *Getting at the Concept* exercises help students develop and relate their understanding of important ideas. The *Review Exercises* at the end of each chapter are grouped and correlated by text section.

The Learning Tools CD-ROM that accompanies the student text provides highly interactive reinforcement and extension of the textbook content. It includes Computer Algebra System (CAS) Explorations, a MathGraph tool that enables students to manipulate graphs from the text, MathArticles (printable articles from mathematics journals), Calculus Labs, Math Biographies, additional chapter content that the teacher may choose to incorporate into the course, and 3-D rotatable graphs.

Assessment

The *Study and Solutions Guide* contains practice tests with solutions and a section of study strategies. The teacher's Test Item File contains multiple-choice, open-ended, and writing test items coded by level of difficulty. (Technology items are coded for easy reference.) There is also a bank of chapter tests with answer keys, two final exam forms, and materials for alternative assessment. The Test Generator provides the same test items, while also offering the teacher the flexibility to incorporate his/her own test items as well.

Organization

The program centers around a single-volume student edition, supported by student resources and teacher resources.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**
All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc
Free per classroom teacher: Instructor's Resource Guide, Instructor's AP Themes Booklet, Instructor's Solution Guide (Chapters P-5), Instructor's Solution Guide (Chapters 6-10), Instructor's Solution Guide (Chapters 10-14), Test Bank, Test Generator (Windows/Macintosh), Graphing Technology Guide, Houghton Mifflin ClassPrep Instructor's CD-ROM, <http://college.hmco.com>.
One class set (25) free per classroom teacher: Study and Solutions Guide (Chapters P-10), Study and Solutions Guide (Chapters 10-14)
- **Available Ancillary Materials**
Calculus Videotapes, Calculus Learning Tools Student CD-ROM

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "**not available**" in the space.

Research data is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)

Web Address: www.mcdougallittell.com

Title: Calculus, Single Variable (with Learning Tools CD-ROM)

Author: Larson, et al. Copyright: 2002

ISBN: 0-618-23974-X Course/Content Area: AP Calculus

Intended Grade or Level: 11-12 Readability Level: 9.45 (with technical terms)

List Price: \$102.36 Lowest Wholesale Price: \$76.77

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Calculus, Single Variable offers comprehensive coverage of single variable topics that is ideal for the Advanced Placement AB course. This Seventh Edition addresses the latest Advanced Placement guidelines by integrating the use of graphing calculators throughout and by asking students to look at problems numerically, graphically, analytically, and verbally. This text is also available in accessible electronic format.

Student Experiences

The text was one of the first to incorporate computer-generated art to aid in the visualization of concepts. The Seventh Edition continues to lead the way with a completely new art program created by state-of-the-art technology. The three dimensional surfaces, in particular, are the most realistic and accurate in any textbook.

The text might best be described as fitting midway between texts that define themselves as traditional or reform. Its approach is like that of a traditional text in that it is rooted in carefully developed theory, correct statements of theorems, inclusion of proofs, and mastery of traditional calculus skills. On the other hand, it embraces reform through technology, emphasis on real-life applications and modeling data exercises, conceptual and multi-part exercises, new explorations, and a myriad of student and teacher aids.

For example, each chapter begins with a full-page chapter motivator. As all calculus teachers know, one of the difficulties in teaching calculus is that they are often answering questions that students have not yet asked. The motivators address this dilemma by presenting real-life situations with exploratory questions. As students attempt to use the techniques of their current skill set to answer the questions, they will learn to appreciate the power and efficiency of the new calculus techniques presented in the chapter.

The text encourages students to problem-solve by using numerical, graphical, and analytical approaches, and offers an array of new types of exercises and problem-solving strategies. Additionally, technology is integrated into examples and exercises and demonstrate the usefulness of graphing calculators and computers in problem-solving.

P.S. Problem Solving exercises at the end of each chapter helps students relate the calculus to real-world problems and applications. *Getting at the Concept* exercises help students develop and relate their understanding of important ideas. The *Review Exercises* at the end of each chapter are grouped and correlated by text section.

Students taking this course are expected to take the Advanced Placement Examination in Calculus AB in the spring of their year of study.

The Learning Tools CD-ROM that accompanies the student text provides highly interactive reinforcement and extension of the textbook content. It includes Computer Algebra System (CAS) Explorations, a MathGraph tool that enables students to manipulate graphs from the text, MathArticles (printable articles from mathematics journals), Calculus Labs, Math Biographies, additional chapter content that the teacher may choose to incorporate into the course, and 3-D rotatable graphs.

Assessment

The *Study and Solutions Guide* contains practice tests with solutions and a section of study strategies. The teacher's Test Item File contains multiple-choice, open-ended, and writing test items coded by level of difficulty. (Technology items are coded for easy reference.) There is also a bank of chapter tests with answer keys, two final exam forms, and materials for alternative assessment. The Test Generator provides the same test items, while also offering the teacher the flexibility to incorporate his/her own test items as well.

Organization

The program centers around a single-volume student edition, supported by student resources and teacher resources.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**
All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc
Free per classroom teacher: Instructor's Resource Guide, Instructor's AP Themes Booklet, Instructor's Solution Guide (Chapters P-5), Instructor's Solution Guide (Chapters 6-10), Test Bank, Test Generator (Windows/Macintosh), Graphing Technology Guide, Houghton Mifflin ClassPrep Instructor's CD-ROM, <http://college.hmco.com>
One class set (25) free per classroom teacher: Study and Solutions Guide (Chapters P-10)
- **Available Ancillary Materials**
Calculus Videotapes, Calculus Learning Tools Student CD-ROM

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** *Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "not available" in the space.*

Research data is not available at this time.

Program Description/Textbook or Print Instructional Material

Vendor: McDougal Littell Inc. (A Houghton Mifflin Co.)
Web Address: www.mcdougallittell.com
Title: Algebra 1: Concepts and Skills
Author: Larson, et al. Copyright: 2001
0-618-05051-5 (survey)/
ISBN: 0-618-10646-4/0-618-10648-0 (Vol. 1/Vol. 2) Course/Content Area: Algebra I
Intended Grade or Level: 8-12 Readability Level: 6.0
\$69.88 (survey)/ \$52.41 (survey)/
List Price: \$52.36 (Vol. 1 & Vol. 2) Lowest Wholesale Price: \$39.27 (Vol. 1), \$39.27 (Vol. 2)

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Algebra 1: Concepts and Skills presents a straightforward approach to the study of the fundamentals of algebra. The text presents a broad range of algebra topics with a focus on concept development and skills acquisition. Students begin study with the basics, such as variables and exponents, and an introduction to functions. They review properties of real numbers and then work with solving, graphing, and writing linear equations. This sets the stage for work with inequalities and systems. Exponential functions lead to specific of quadratic functions and factoring. The course concludes with rational equations and work with radicals. **This text is also available in accessible electronic format.**

Student Experiences

The *Algebra 1: Concepts and Skills* program has been developed to meet the needs of a wide variety of students. It is appropriate, particularly, for on-level students and students working at less-than-proficient levels that wish to remain in an academic course and have the option of proceeding to geometry. The fundamentals of algebra are supported with abundant practice and comprehensive test preparation. On level content is presented in manageable “chunks”. The program provides a flexible instructional approach that includes opportunities for conceptual development through the use of manipulatives and technology. Lessons incorporate visual approaches – supportive, streamlined explanations with lots of clear, color-coded and diagrammed examples. Students encounter multiple Checkpoints before they begin the practice set. Summary Boxes focus students’ attention to important content and incorporate multiple representations – verbal, algebraic and graphic. Exercise sets offer Guided Practice emphasizing critical vocabulary and skills. Students have access to an abundance of skills practice as well as quality application problems.

Assessment

The text provides a pre-course test, pre-course practice, and an end-of-course test. Every Chapter Study Guide includes a Readiness Quiz. Checkpoint Exercises are integrated after each example. The teacher’s edition provides Closure Questions, Homework Checks, and Mini-Quizzes for every lesson. There are 3 quizzes per chapter and 2 formal tests – one in multiple-choice format. Cumulative practice is provided after every third chapter and there are corresponding cumulative tests in the appropriate Chapter Resource Books.

The Chapter Resource Books also include formal quizzes, 2 chapter tests, an SAT/ACT chapter test, alternative assessments & math journal, and a project with scoring rubric.

Additionally, there is a *Standardized Test Practice Workbook* and the test generator.

Organization

Algebra 1: Concepts and Skills is organized in a single-volume pupil's edition that provides 12 sequential chapters of study. It is intended for one year (two semesters) of academic study or an equivalent block of time. Additionally, a two-year split volume, with appropriate teacher resources, is available for a two-year course of study.

Every chapter opens with a Study Guide designed to review basic vocabulary and skills and prepare students for work in the chapter. A clear, predictable lesson format is used throughout the course. Problem Solving skills are supported by the frequent inclusion of the *Verbal Model for Problem Solving*. *Mixed Review* and *Maintaining Skills* sections provide consistent skills maintenance in every lesson. Standardized Test Preparation is included in every lesson and at the end of each chapter. Cumulative Review is provided in every third chapter. The *Maintaining Skills* page at the end of each chapter review basic skills in preparation for the next chapter.

Each lesson and chapter is supported by a consistent set of resources. The majority of print resources are organized into Chapter Resource Books. Teachers have access to many technological tools to aid instruction, review, and assessment.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

All gratis items are provided upon request when purchasing classroom quantities from McDougal Littell Inc.

Free per classroom teacher: Teacher's Edition, Teacher's Resource Package, Key Skills Review: Preparing for Volume 2, Pacing and Lesson Planning Guide for Volumes 1 & 2, Multi-Language Glossary, Overhead Algebra Tile Kit, Teaching Mathematics Using Technology, Resources in Spanish, Extra Example Transparencies with Standardized Test Practice, Answer Transparencies for Checking Homework, Starting Points: Alternative Lesson Opener's Transparency Package, Instant Replay: Video Review Games, Electronic Teacher Tools CD-ROM, Electronic Lesson Presentations CD-ROM, Time-Saving Test & Practice Generator CD-ROM, www.mcdougallittell.com

Free per school building: Personal Student Tutor CD-ROM with Site License

Free per pupil's edition purchased for the life of the adoption: Practice Workbook with Examples Pupil's Edition

Choice of one per pupil's edition purchased for the life of the adoption: Basic Skills Workbook: Diagnosis and Remediation Pupil's Edition or Standardized Test Practice Workbook Pupil's Edition

- **Available Ancillary Materials**

Student Algebra Tile Kit, Personal Student Tutor CD-ROM, Personal Student Tutor CD-ROM 10 Pack,

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education. **NOTE:** Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "**not available**" in the space

Evidence of effectiveness is not available at this time.